

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/086602 A1

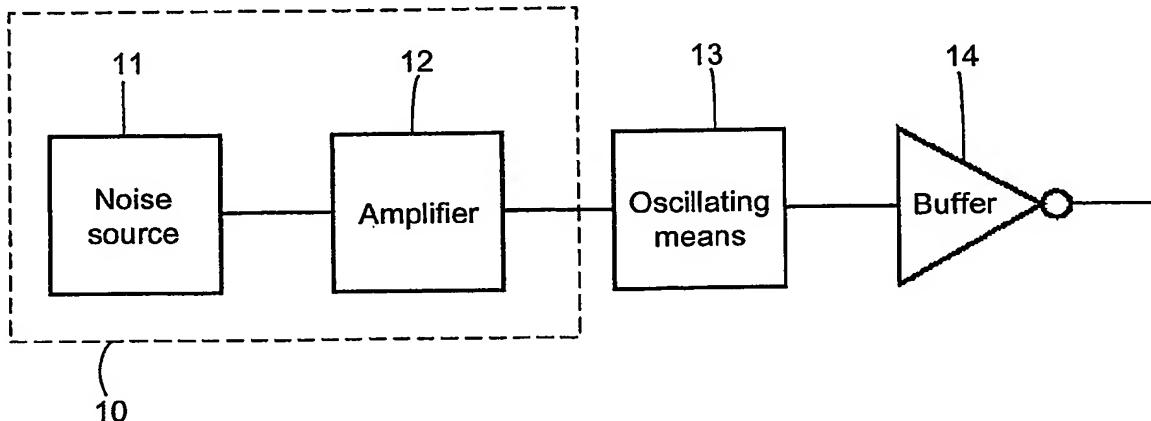
- (51) International Patent Classification⁷: H03B 29/00, H03K 3/84, G06F 7/58, H03F 3/45, 3/68
- (21) International Application Number: PCT/EP2004/002904
- (22) International Filing Date: 19 March 2004 (19.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03006904.1 26 March 2003 (26.03.2003) EP
60/459,447 31 March 2003 (31.03.2003) US
- (71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) [SE/SE]; SE-126 25 Stockholm (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): MATTISSON, Sven [SE/SE]; Östanväg 3, SE-237 36 Bjärred (SE).
- (74) Agent: BYSTRÖM, Linus; Ström & Gulliksson IPC AB, P.O. Box 793, SE-220 07 Lund (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOISE GENERATOR



WO 2004/086602 A1

(57) Abstract: A device for generating a noise signal, which may be used for generating a truly random sequence (10) of bits is disclosed. The device comprises a noise source (11), and an amplifier (12) connected to the noise source (11). The device according noise source according to the invention is protected from interfering signals to provide high noise-interference ratio. Further, the present invention relates to an integrated circuit and an electronic apparatus comprising the device for generating a noise signal according to the invention.